

ENVIRONMENTAL INFECTION CONTROL



Agenda

Hazard
Process
Interim Control
Permanent Control
Resource



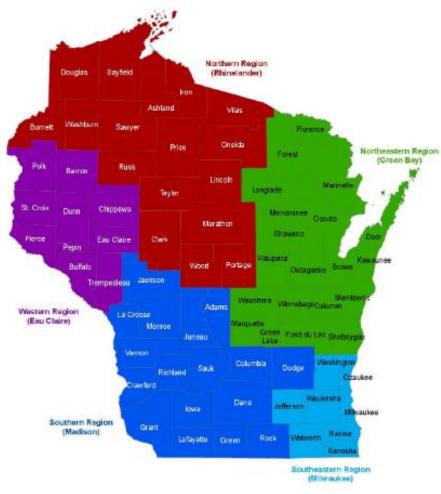
Referral



Design Professional



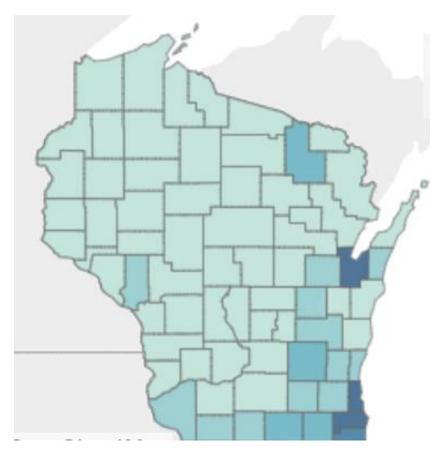
Referral



State Licensure
Bureau of Nursing
Home and Resident
Care



Referral



County
Public Department of
Health



Hazard

Infectious Agent

Corona Virus: A large family of viruses that cause illness ranging from the common cold to more severe diseases

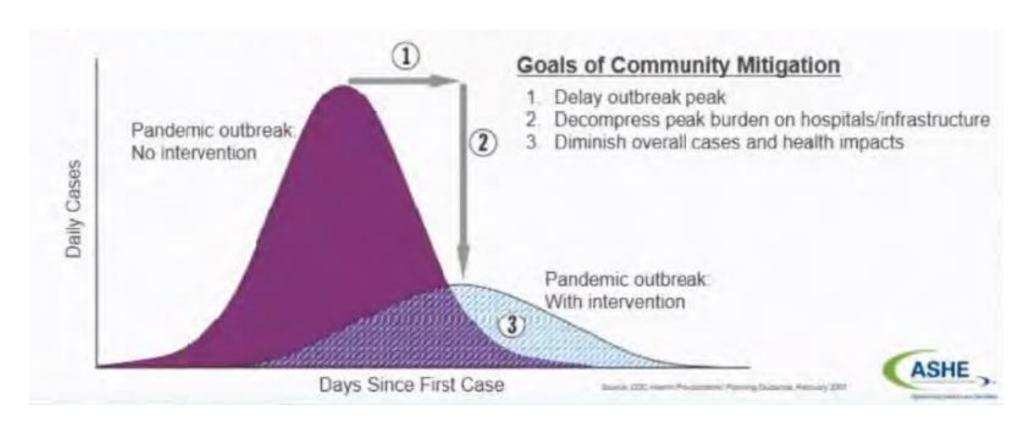
SARS-CoV-2: The name of the virus that causes COVID-19

COVID-19: The name of the disease caused by the SARS-CoV-2 virus



Hazard

Communicable Disease





Code

The LTC facility <u>must prevent</u> the development and transmission of **communicable diseases** and infections

42 CFR 483.80 F880



Code

The LTC facility <u>must establish</u> and maintain an infection prevention and control program designed to provide a safe and sanitary **environment**

42 CFR 483.80 F880



Code

The LTC facility <u>must document</u> a risk assessment utilizing an all-hazards approach

42 CFR 483.73 E-0006



Hazards Wisconsin Top Five

- 1. Tornado
- 2. Communicable disease
- 3. Cyber attack
- 4. Ice / snow storm
- 5. Flood





Hazards Risk Management

Step 1: Risk assessment

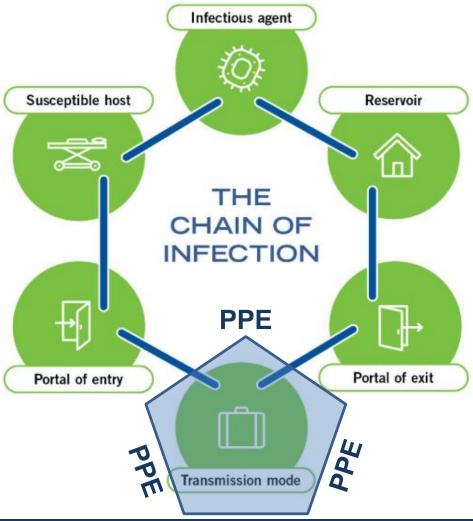
Step 2: Implementation

Step 3: Lessons learned

Step 4: Plan improvements







Break the Chain

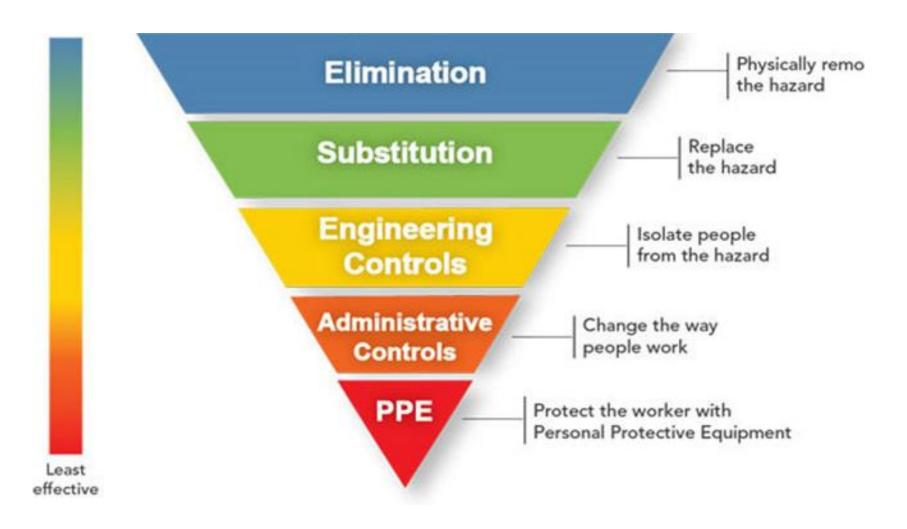




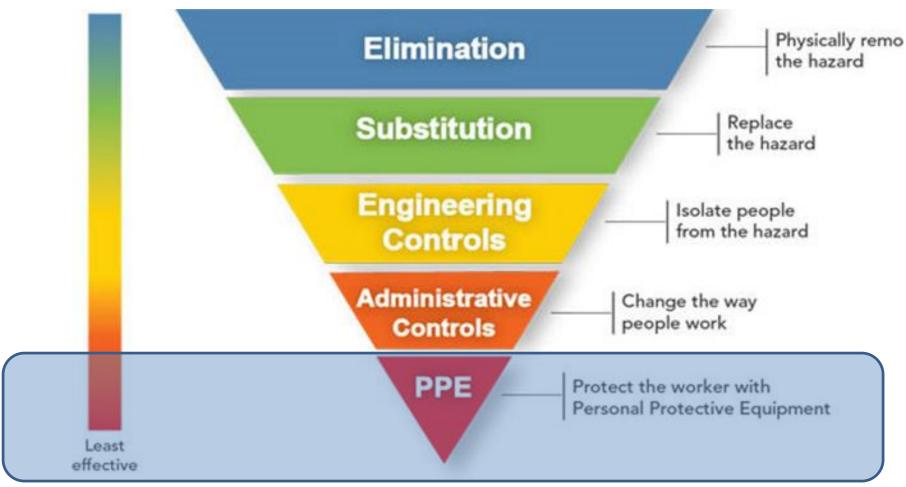
Process Air Purge - CDC

Air Changes Clearance Rates Table B.1. Air changes/hour (ACH) and time required for airborne-contaminant removal by efficiency * Time (mins.) required for removal 99% Time (mins.) required for removal 99.9% ACH § ¶ efficiency efficiency 10" 12" 15*

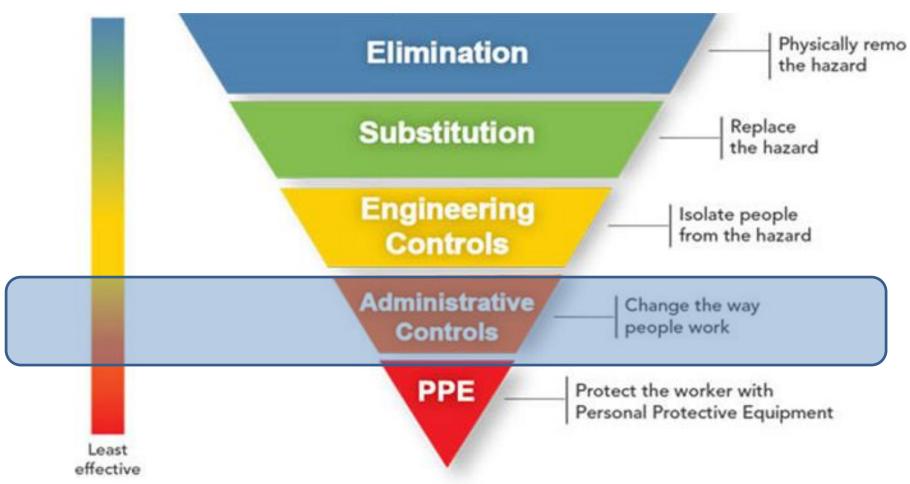














Administrative Controls

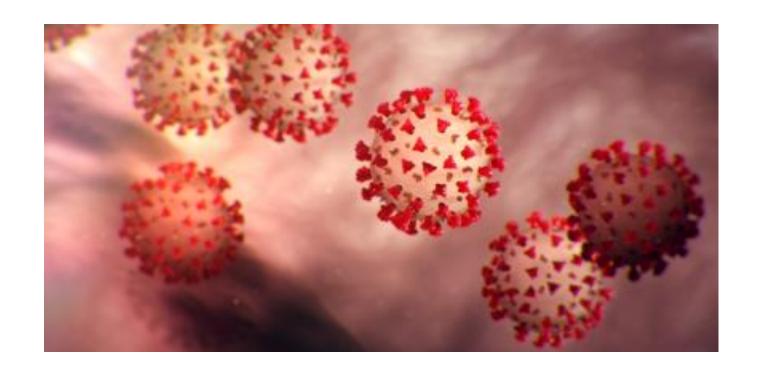
Detection

Symptom-based strategy
Signs and/or Symptoms
Atypical manifestations
Screening

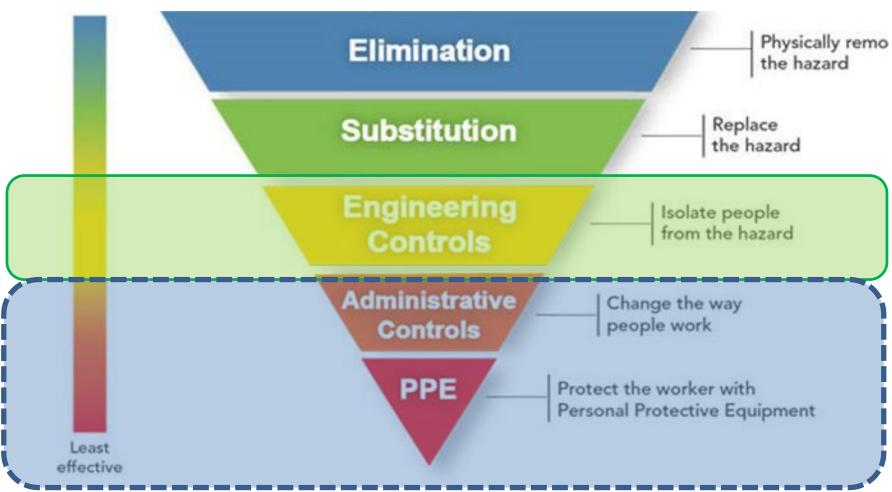
Policy / Plan

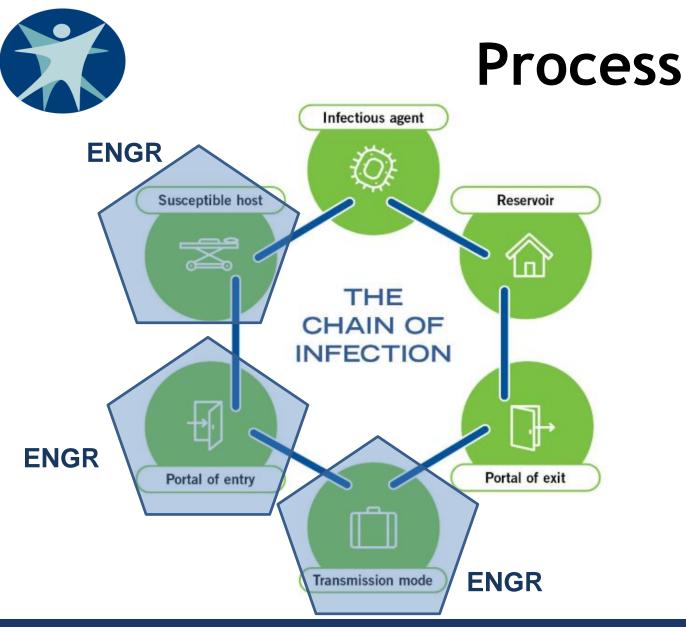
Test-based strategy
Comprehensive
Segregation
Dedicated staff
Adequate supplies





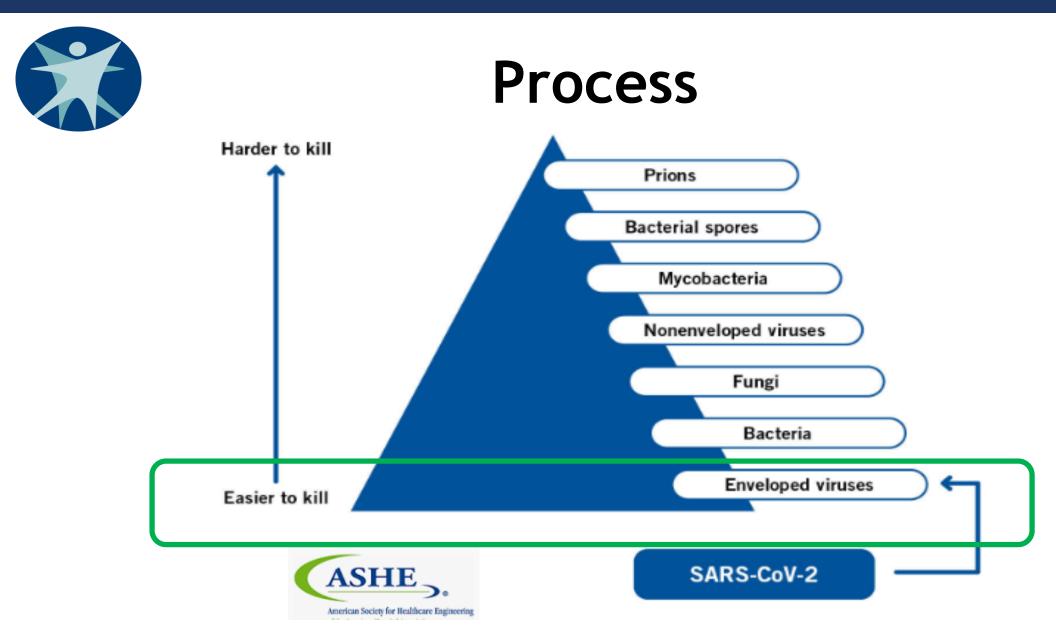






Break the Chain









Plan Commitment

* Interim *





Passive

Sealed Joints



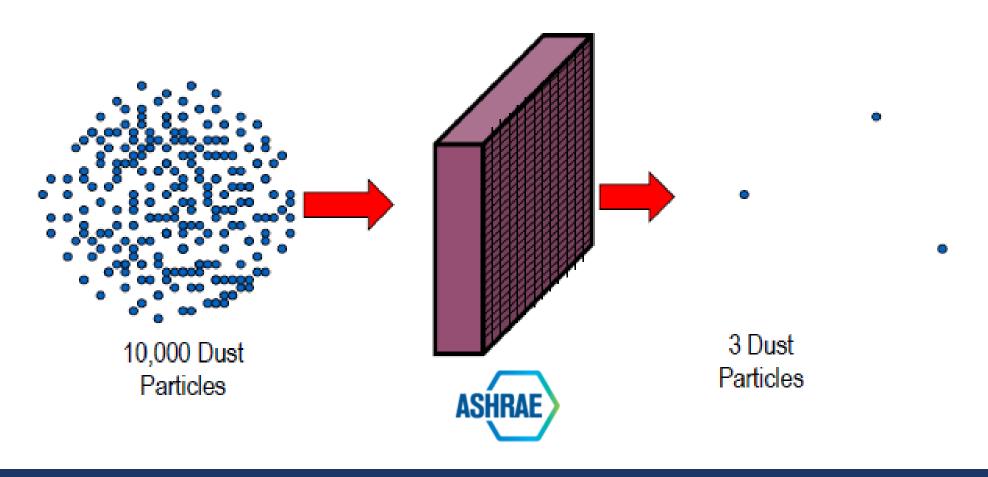


Active

Sealed "Return"



Control HEPA Filtration







HEPA Filter Media





Portable HEPA Unit



N95 Mask



ASHRAE

HEPA Units

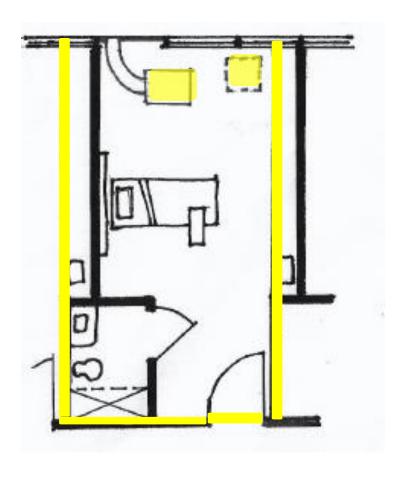




95% Efficiency

99.97% Efficiency





Portable HEPA Unit in Resident Room

HEPA exhaust to Exterior

Sealed Return

Sealed Perimeter





Portable HEPA unit outside Resident Room

Seal Return

Seal Perimeter





Negative Test





Hand Washing





Hand Washing

Simple
Soap & Water
20 seconds

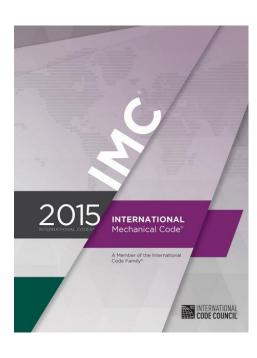


Permanent Control

Wisconsin Commercial Building Code

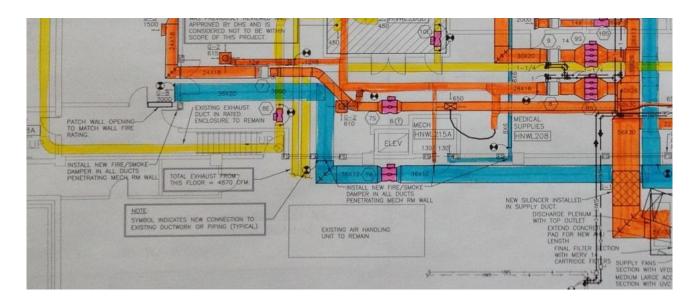
Chapter SPS 364

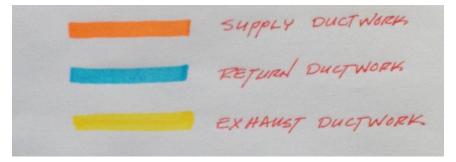
2015 International Mechanical Code plus amendments





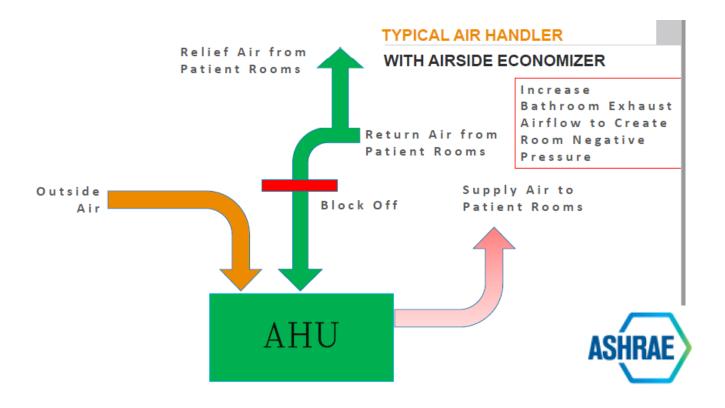
Designer







Control* 100% Outside Air





Designer

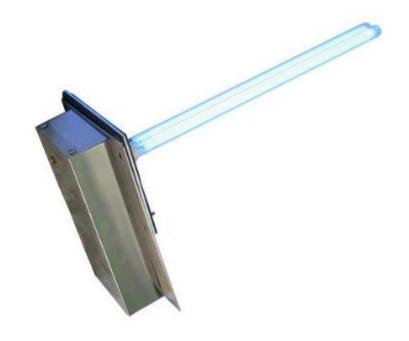


HVAC Unit

HEPA Filter



Designer



HVAC Unit

Coil Treatment

Ultraviolet Light



Plan Review

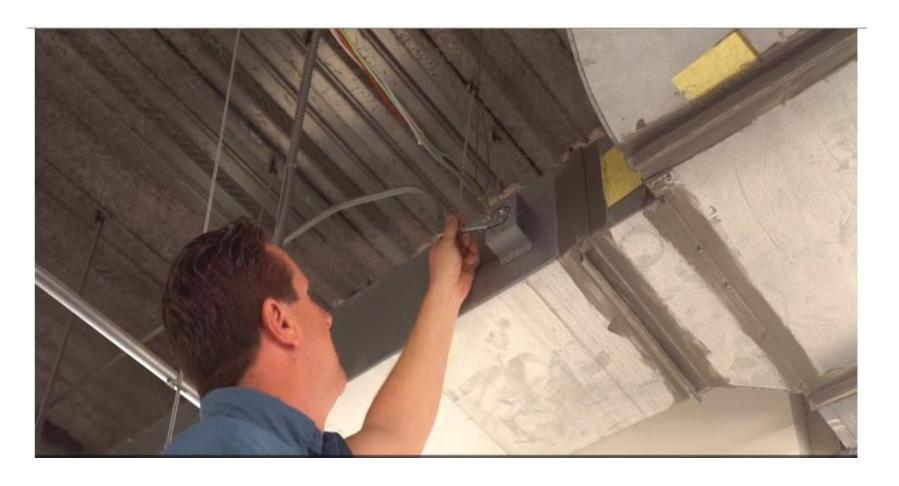
<u>DHS</u>

- Architectural
- Ventilation

DSPS

Plumbing



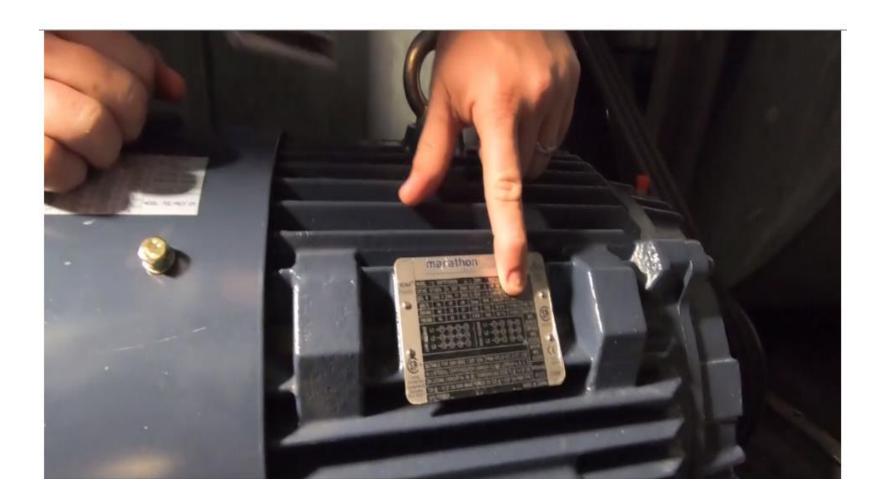






Long-Term Care Webinar





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Resources

CDC Guidelines for Environmental Infection Control in Health Care Facilities www.cdc.gov



Summary

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Process
Interim Control
Permanent Control
Resource



Thank You David R. Soens